KORSHAK, V.V.; VINOGRADOVA, S.V.; PAPAVA, G.Sh.; TSISKARISHVILI, P.D.

Study of mixed block polyarylates. Dokl. AN SSSR 156 no. 2, 368-371 My '64. (MIRA 17:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i [illegible] khimii imeni Melikishvili AN [illegible]izinskoy SSR. 2. Chlen-korrespondent AN SSSR (for Korshak).

L 17722-66 EWP(j)/EWT(m)/ETC(m)-6/T RM/WW

ACC NR: AP6003425 (A) SOURCE CODE: UR/0190/66/008/001/0131/0135

AUTHORS: Vinogradova, S. V.; Korshak, V. V.; Papava, G. Sh.; Tsiskarishvili, P. D.

ORG: Institute for Heteroorganic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR); Institute for Chemistry, im. Melikishvili, AN Georgian SSR (Institut khimii AN GruzSSR)

TITLE: Mixed block-polyarylates based on polyorganosiloxane oligomer, dihydroxy phenols, and chlorides of aromatic dicarboxylic acids

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 131-135

TOPIC TAGS: oligomer, polymer, block copolymer, polyaryl plastic, organosilicon compound, organic synthetic process

ABSTRACT: Block-polyarylates based on polyorganosiloxane oligomer, dian, phenolphthalein and chlorides of terephthalic and isophthalic acids were synthesized to extend the previously published work on block-polyarylates by S. V. Vinogradova, V. V. Korshak, G. Sh. Papava (Izv. AN SSSR, ser. khimich., 1964,

Card 1/2

UDC: 541.64+678.674+678.84

L 17722-66

ACC NR: AP6003425

4

1296). The reaction yield, viscosity in tricresol solution, softening temperature, and elemental composition of the synthesized block-polymers were determined. The experimental results are presented in graphs and tables (see Fig. 1). X-ray

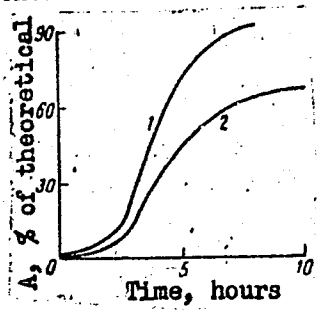


Fig. 1. Determination of the quantity of hydrogen chloride (A), liberated during the reaction between chloranhydride of terephthalic acid: 1 - dian; 2 - polyorganosiloxane oligomer in ditolylmethane solution (concentration 0.05 mole/liter).

diffraction pictures of the polymers were determined. It was found that dian polyarylates could absorb up to 40% of the siliconorganic block-component and still retain a relatively high softening temperature. The block-polyarylates possess good thermal properties and yield strong, transparent, and thermally stable films from sclutions. Orig. art. has: 1 table and 2 graphs.

SUB CODE: 07/ SUBM DATE: 01Mar65/ ORIG REF: 004

Card 2/2 nst

L 03858-67 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6031950 SOURCE CODE: UR/0251/66/043/003/0593/0598

AUTHOR: Papava, G. Sh.; Agladze, L. D.; Tsiskarishvili, P. D.; Vinogradova, S. V.; Korshak, V. V. (Corresponding member AN SSSR)

ORG: Institute of Physical and Organic Chemistry im. P. G. Melikishvili Academy of Sciences GruzSSR (Institut fizicheskoy i organicheskoy khimii, Akademii nauk GruzSSR); Institute of Hetero-Organic Compounds, Academy of Sciences, SSSR (Institut elementoorganicheskikh soyedineniy, Akademiya nauk SSSR)

TITLE: Mixed polyaryl ester-penton block-copolymers

SOURCE: AN GruzSSR. Soobshcheniya, v. 43, no. 3, 1966, 593-598

TOPIC TAGS: block copolymer, polyaryl ester, penton, phenolphthalein, bisphenol A, isophthaloyl chloride, terephthaloyl chloride, polyaryl resin

ABSTRACT: Several mixed polyaryl ester-penton block-copoloymers were prepared by polycondensation of various amounts of penton, phenolphthalein and for bisphenol-A, and terephthaloyl and/or isophthaloyl chloride. The copolymers yielded strong films from chloroform solutions. The effects of individual components on the properties of the copolymers were studied. The results, given in the form of tables, indicate that: 1) introduction of up to 10% penton does not substantially lower the softening temperature of polyaryl esters, however, larger amounts of penton lower this temperature; 2) for equal penton content, the softening temperature of the copolymers is affected by the structure of both the bisphenol and the carboxylic acid; 3) intro-

Card 1/2

L 02858-67

ACC NR: AP6031950 O

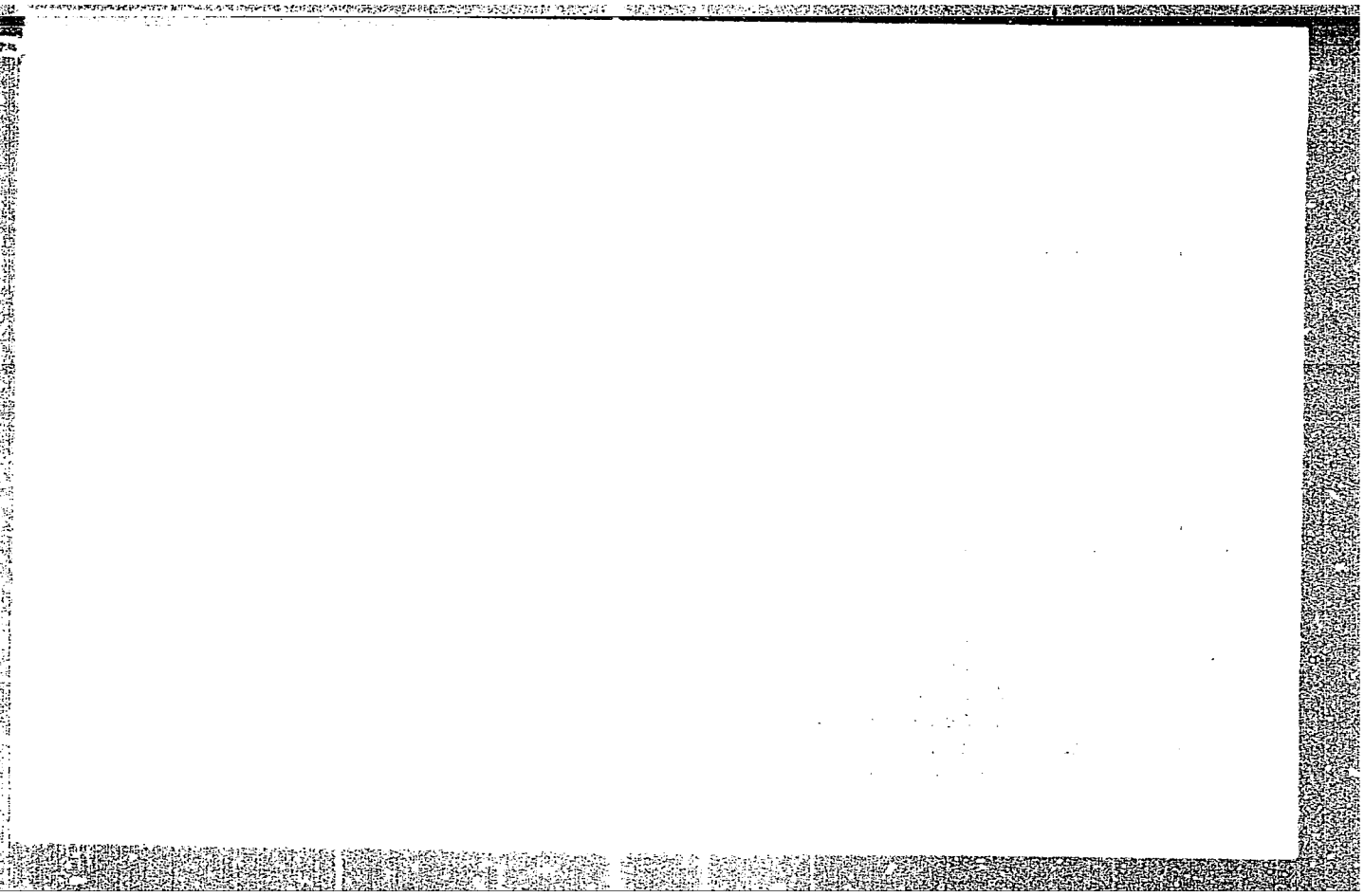
duction in the copolymer backbone of components with a different structure lowers the softening temperature of the copolymers; 4) small amounts of penton (up to 2.5%) increase the crystallinity of the copolymers, while larger amounts lower this crystallinity and inprove their elasticity. Orig. art. has: 4 tables. [BO]

SUB CODE: 07, 11/ SUBM DATE: 20Nov65/ ORIG REF: 001/

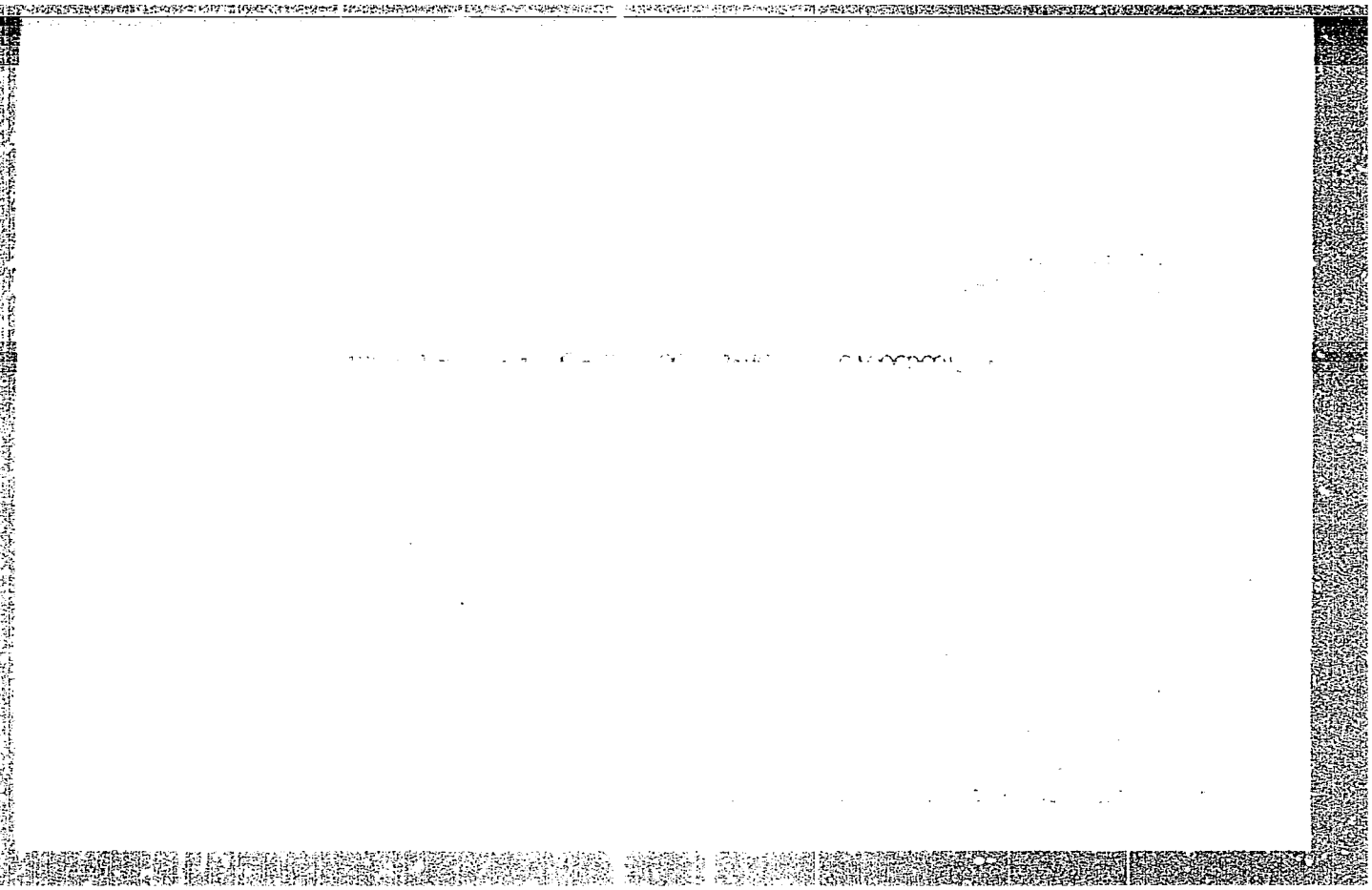
Card 2/2 LC

GOGORISHVILI, P.V.; KARKARASHVILI, M.V.; TSITSISHVILI, L.D.;
TSISKARISHVILI, P.D., red.

[Oil field brines of Georgia] Burovye vody neftianykh mestorozhdenii Gruzii. Tbilis, Metsniereba, 1964. 121 p.
(MIRA 18:7)



APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120003-5"



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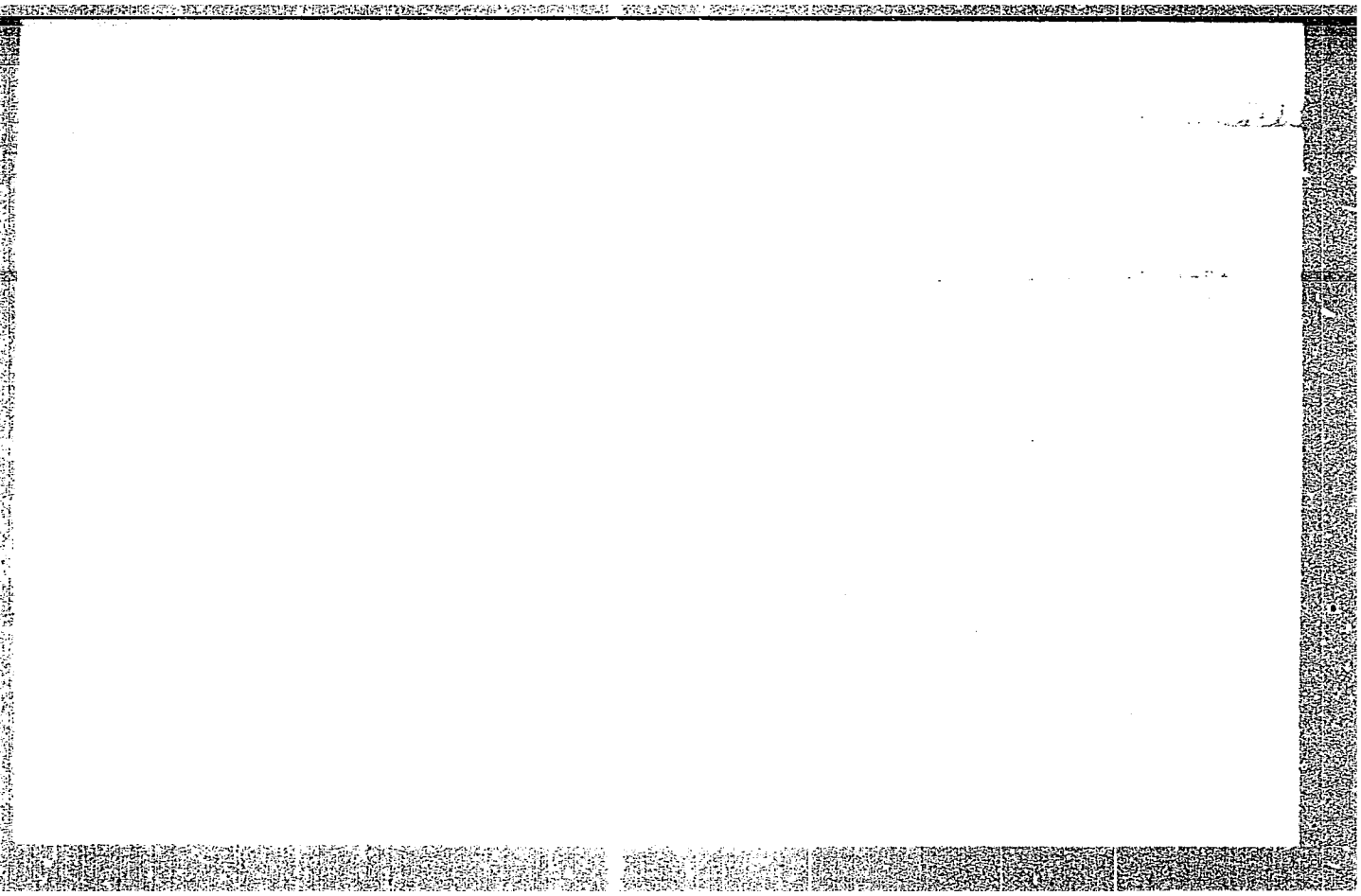
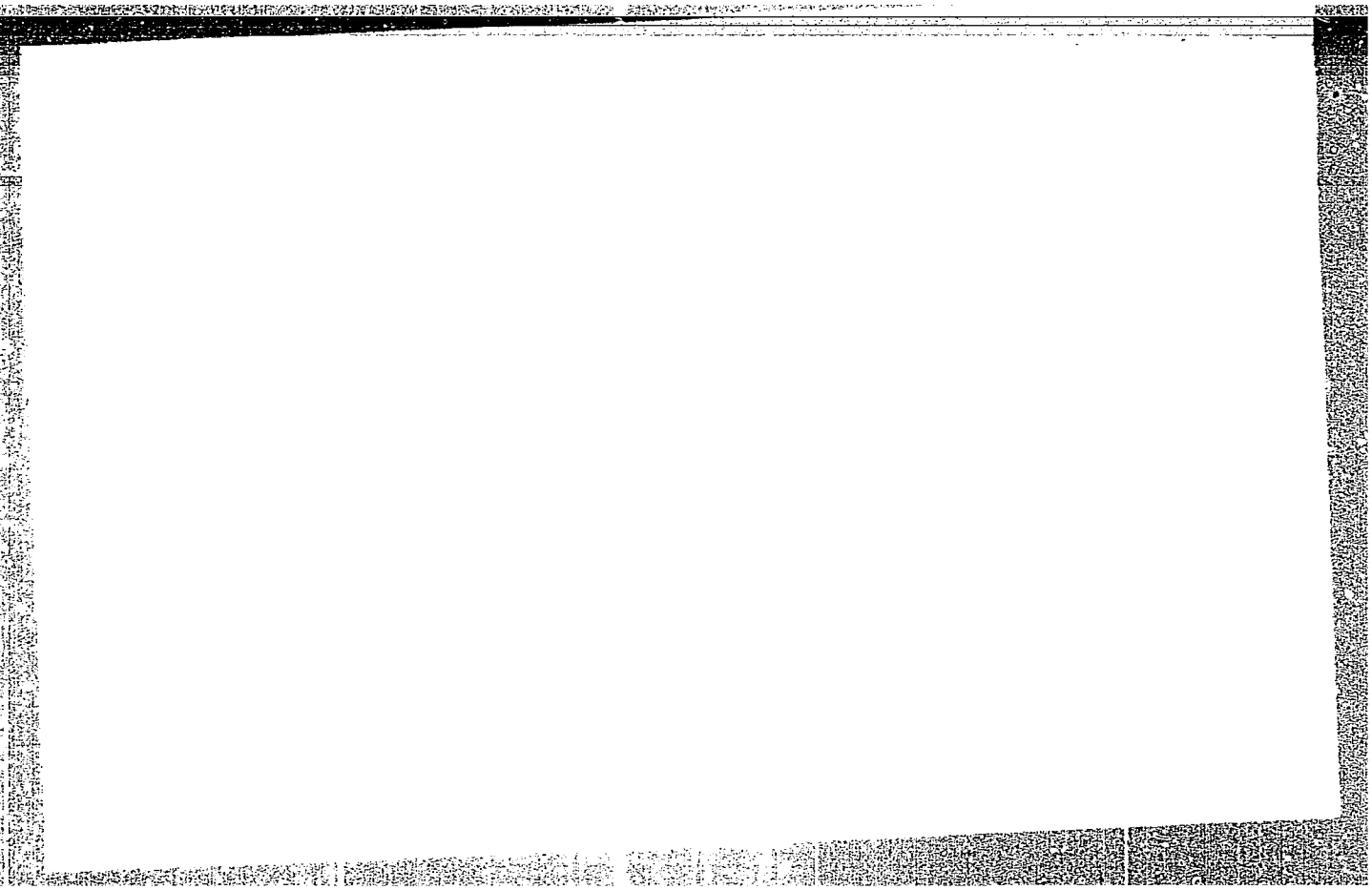
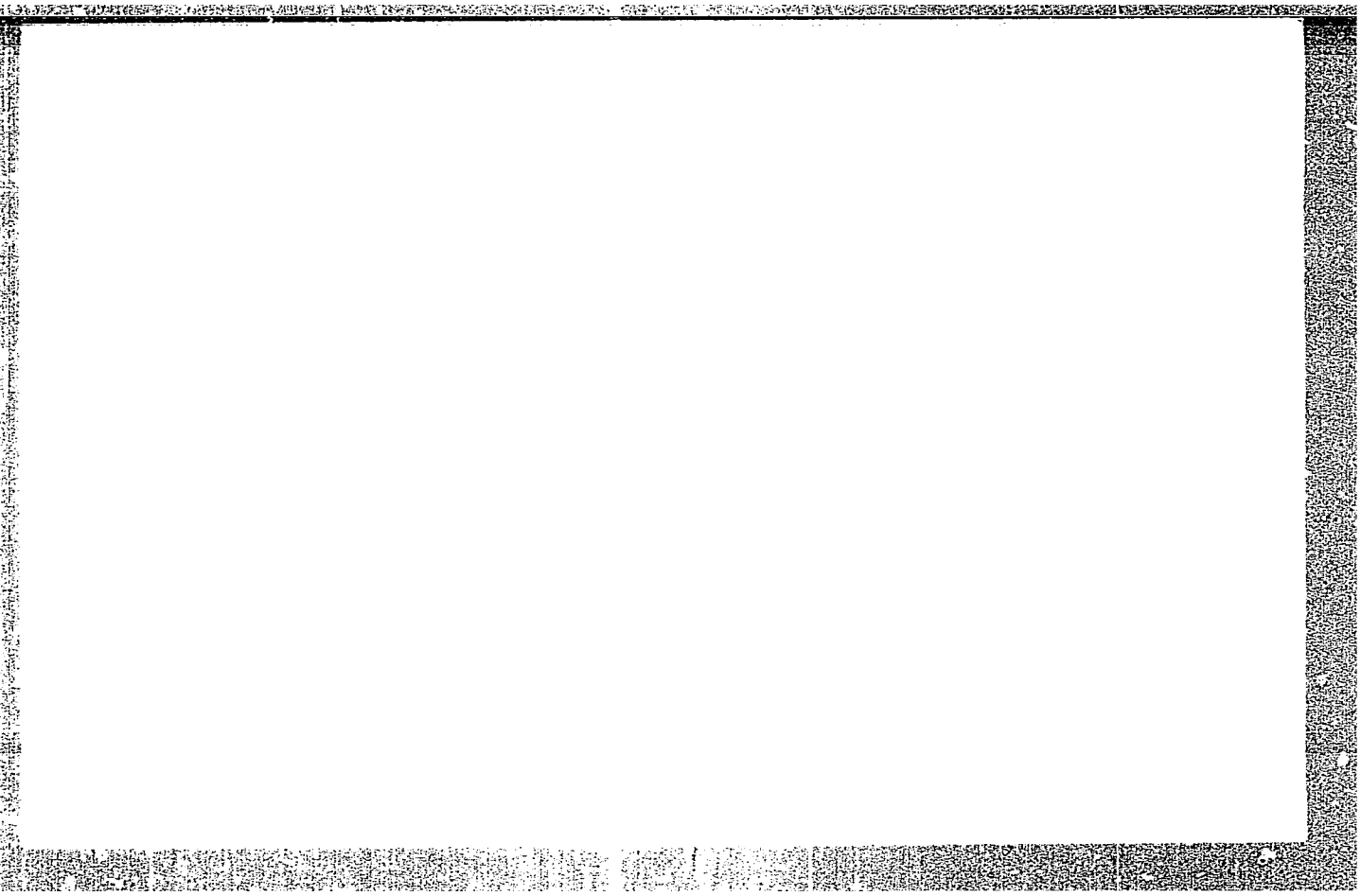


APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120003-5"



APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120003-5"



APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120003-5"

PAPAVA, G.Sh.; VINOGRADOVA, S.V.; KORSHAK, V.V.; TSISKARISHVILI, P.D.

Heterochain polyesters. Report no.56: Mixed block polyarylates based on polypropylene oxide, dihydric phenols, and aromatic dicarboxylic acid chlorides. Izv.AN SSSR. Ser.khim. no.1:149-155 Ja '64. (MIRA 17:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut khimii im. Melikishvili AN GruzSSR.

ACCESSION NR: AP4010045 S/0062/64/000/001/0149/0155

AUTHOR: Papava, G. Sh.; Vinogradova, S. V.; Korshak, V. V.; Tsiskarishvili, P. D.

TITLE: Polyesters with a hetero backbone Report No. 56. Mixed block-polyarylates based on polypropylene oxides, diatomic phenols and the acid chlorides of aromatic carboxylic acids

SOURCE: AN SSSR. Izvestiya. Ser. khim., no. 1, 1964, 149-155

TOPIC TAGS: heterochain polyesters, mixed block polyarylates, polypropylene oxide, diatomic phenols, dicarboxylic acid chlorides, aromatic acid chlorides, polymer synthesis, polymer backbone packing, equilibrium polycondensation, polymer solubility, polymer softening point

ABSTRACT: In continuation of earlier work, this polycondensation involved varying percentages of polypropylene oxide with a molecular weight of 420 (#1) and 880 (#2), liquids easily soluble in organic solvents, and terephthalic and isophthalic acid chlorides, diane,

Card 1/3

ACCESSION NR: AP4010045

hydroquinone, resorcin or phenolphthalein. Results are tabulated and graphed, reporting on yields, melting or softening points, solubility and consistency of the end products. The probable reaction formulas are presented; these were verified by determining the amount of HCl liberated during the reaction. The starter polymer was found to react more rapidly than diane with terephthaloyl chloride during the first hour. Such starter polymers would thus be considered sufficiently active for use as monomers in polymer synthesis. Block formation was verified by IR spectroscopy, structure by X-ray. All factors influenced properties, e.g. end products (with diane and terephthaloyl chloride) containing more than 50 weight % of #1 or 70% of #2 were semi-liquid or waxy substances easily soluble in most organic solvents. The m.p. of end products containing up to 40-50% starter polymers was inversely related to this content. Those containing the low-molecular starter polymer had lower m.p. and better solubility than the high-molecular. Terephthalic acid gave higher softening temperatures than isophthalic acid. The possible reasons for such influence on physical properties was discussed, such as solubility,

Card 2/3

ACCESSION NR: AP4010045

elasticity, and dyability, while retaining a high softening point. "In conclusion, the authors wish to thank L. B. Sokolov for placing the polypropylene oxide at their disposal." Orig. art. has: 5 figures, 3 tables, and 3 formulas.

ASSOCIATION: Institut elementoorganicheskikh soedineniu Akademii nauk SSSR (Institute of Organoelemental Compounds, Academy of Sciences, SSSR); Institut khimii im Melikishvili Akademii nauk GruzSSR (Melikishvili Institute, Academy of Sciences, GruzSSR)

SUBMITTED: 17Jul63 DATE ACQ: 14Feb64 ENCL: 00

SUB CODE: CH NO REF SOV: 001 OTHER: 000

Card 3/3

50

TSISKARISHVILI, P. D.

JUN 25 1963

PHASE I BOOK EXPLOITATION SOV/6195

Nauchnaya konferentsiya institutov khimii Akademiy nauk Azerbaydshanskoy, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.

Materialy nauchnoy konferentsii institutov khimii Akademiy nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaydzhan, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.

Sponsoring Agency: Akademiya nauk Armyanskoy SSR. Institut organicheskoy khimii.

Resp. Ed.: L. Ye. Ter-Minasyan; Ed. of Publishing House: A. G. Sikuni; Tech. Ed.: G. S. Sarkisyan.

PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.

Card 1/11

COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

TABLE OF CONTENTS:

PHYSICAL CHEMISTRY

Materials of the Scientific Conference (Cont.) SOV/6195

Tsiskarishvili, P. D. The Question of the Chemical Structure of Coal Tar Resins [Fossilized Bioliths and Bituminous Coal]

382

AVAILABLE: Library of Congress

SUBJECT: Chemistry

Card 11/11

BN/clb/jw
5/6/63

TSYSKARISHVILI, P.D.

46

PHASE I BOOK EXPLOITATION SOV/5195

Nauchnaya konferentsiya institutov khimii Akademiy nauk Azerbaydshanskoy, Armyanskoy i Gruzinskoy SSR. Yerevan, 1957.

Materialy nauchnoy konferentsii institutov khimii Akademiy nauk Azerbaydzhanskoy, Armyanskoy i Gruzinskoy SSR (Materials of the Scientific Conference of the Chemical Institutes of the Academies of Sciences of the Azerbaydzhan, Armenian, and Georgian SSR) Yerevan, Izd-vo AN Armyanskoy SSR, 1962. 396 p. 1100 copies printed.

Sponsoring Agency: Akademiya nauk Armyanskoy SSR. Institut organicheskoy khimii.

Resp. Ed.: L. Ye. Ter-Minasyan; Ed. of Publishing House: A. G. Slkuni; Tech. Ed.: G. S. Sarkisyan.

PURPOSE: This book is intended for chemists and chemical engineers, and may be useful to graduate students engaged in chemical research.

COVERAGE: The book contains the results of research in physical, inorganic, organic, and analytical chemistry, and in chemical engineering, presented at the Scientific Conference held in Yerevan, 20 through 23 November 1957. Three reports of particular interest are reviewed below. No personalities are mentioned. References accompany individual articles.

Materials of the Scientific Conference (Cont.) SOV/6195

Tsiskarishvili, P. D. The Question of the Chemical Structure of Coal Tar Resins [Fossilized Bioliths and Bituminous Coal]

AVAILABLE: Library of Congress 382

SUBJECT: Chemistry

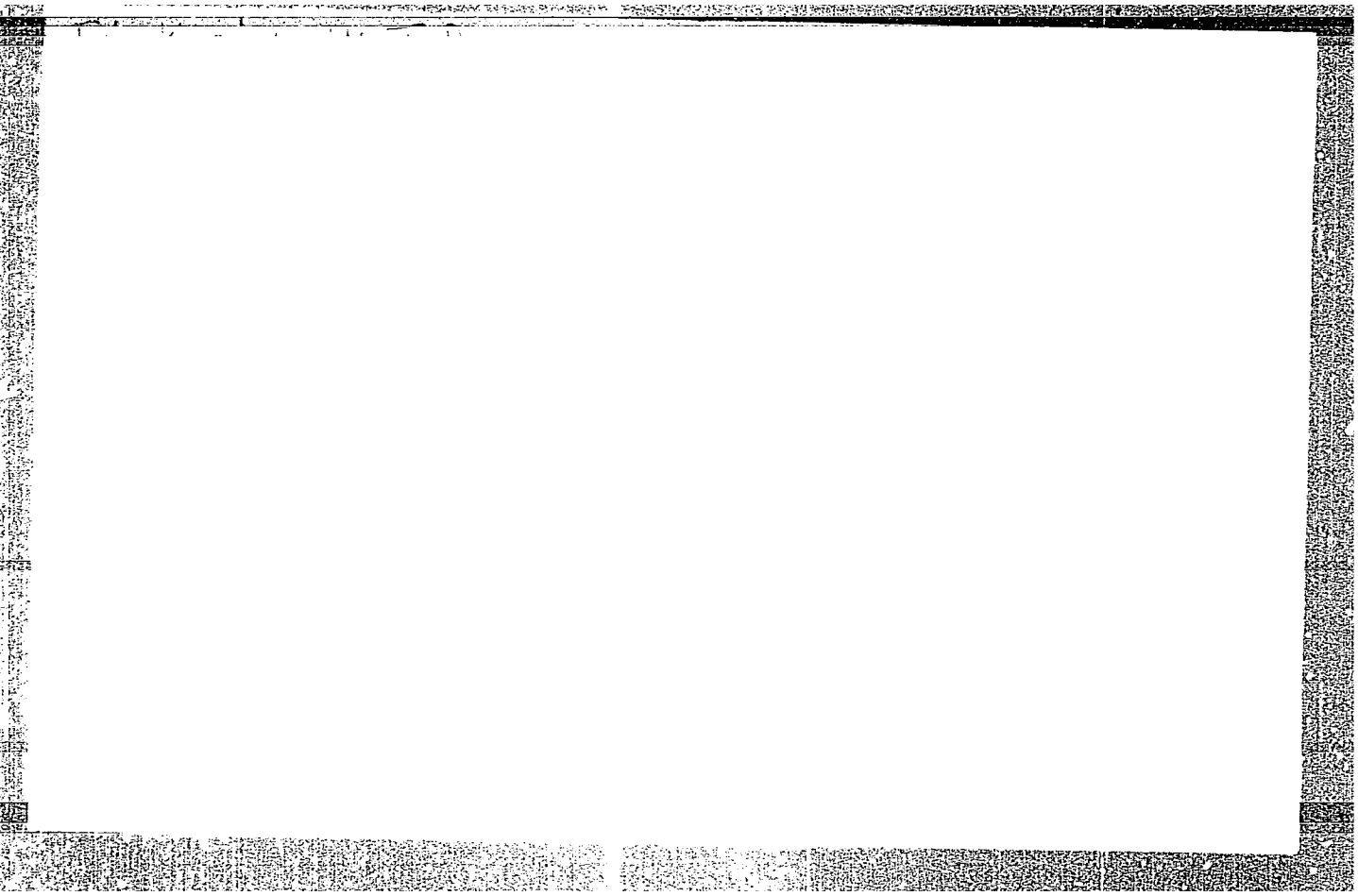
Card ~~11/11~~ 2/2

EN/olb/jw
5/6/63

TSITLANADZE, G.V.; KANDELAKI, D., red. izd-va; ABDUSHELISHVILI, E., tekhn. red.

[The TSkhaltubo Health Resort and its therapeutic properties] Kurort TSkhaltubo i ego lechebnye svoistva. Tbilisi, Gos.izd-vo "Sabchota Sakartvelo," 1962. 361 p. (MIRA 16:3)
(TSKHALTUBO--HEALTH RESORTS, WATERING PLACES, ETC.)

TSISKARISHVILI, T. P., Candidate Biol Sci (diss) -- "The transformation of tanning substances in the stock and grafts of grape vines". Tbilisi, 1959, published by the Acad Sci Georgian SSR. 22 pp (Min Agric Georgian SSR, Georgian Order of Labor Red Banner Agric Inst, Sci Res Inst of Orchardry, Viticulture, and Winemaking of the Acad Agric Sci Georgian SSR), 150 copies (KL, No 23, 1959, 164)



APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120003-5"

TSISKRELI, G.D., prof., doktor tekhn.nauk; VERBETSKIY, G.P., kand.tekhn.nauk

Water permeability of cracks in concrete. Gidr.stroi. 27 no.9:20-23 S '58. (MIRA 11:11)

(Concrete--Permeability)

SOV-98-58-9-6/21

AUTHORS: Tsiskreli, G.D., Doctor of Technical Sciences, Professor and Verbetskiy, G.P., Candidate of Technical Sciences

TITLE: The Water Permeability of Fissures in Concrete (Vodopronitsayemost' treshchin v betone)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 9, pp 20 - 23 (USSR)

ABSTRACT: A series of experiments carried out at the TNISGEI since 1955 on the water permeability and self-sealing of fissures in concrete, showed that, as a result of water filtration through the fissures, the coefficient of water permeability decreased considerably, due mainly to the sealing of these fissures with deposits of calcium carbonate on the walls of the fissures. When the water seeps into the concrete, a reaction occurs between the bicarbonate contained in the water and the calcium hydroxide contained in the body of concrete.

$$Ca(HCO_3)_2 + CA(OH)_2 \quad 2CaCO_3 + 2H_2O$$

Continuing the infiltration, the water, deprived of the bicarbonates, causes the lixiviation of free lime. This

Card 1/2

lime is carried farther, partly onto the surface and partly into the fissures of the concrete. Here the lime meets the prime water stream still containing bicarbonates, one part of the lime becomes carbonized and is deposited on the walls of the fissures and the other part is carried out. The deposition of the lime in the fissures is the main cause of their sealing. The authors describe the experiments they made using water of different degrees of hardness. There is 1 photo, 1 table, 1 diagram, 1 graph, and 5 Soviet references.

1. Concrete--Porosity 2. Water--Applications 3. Sodium carbonates--Chemical reaction 4. Calcium hydroxides--Chemical reaction

TSISKRELI, G.D., dotsent.

Investigation of compression strain properties of ordinary and lightweight concretes. Trudy TbIIZHT no.22:157-210 '50. (MLRA 9:11)

(Concrete--Testing)
(Deformations (Mechanics))

TSISKRELI, G. D.

Tsiskreli, G. D. "The operation of concrete under tension", Izvestiya Tbilis. nauch.-issled. in-ta sooruzheniy i gidroenergetiki, Vol. 11, 1948, p. 19-32.

SO+ U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, N. 23, 1949)

TSISKRELI, G.D., dekter tekhnicheskikh nauk, professor.

Review of All-Union State Standard 4286-48 "Plain and reinforced concrete elements for hydraulic structures." Gidr.strei.25 no.8: 21-24 S '56. (MLRA 9:10)
(Concrete construction--Standards)

TSISKRELI, G. D

124-1957-10-12123

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 129 (USSR)

AUTHOR: Tsiskreli, G. D.

TITLE: Practical Method of Calculating Reinforced Concrete by Limited Opening of Cracks (Prakticheskiy sposob rascheta zhelezobetona po limitirovannomu raskrytiyu treshchin)

PERIODICAL: Sb. tr. Tbilissk. in-ta inzh. zh.-d. transp., 1956, Nr 30, pp 86-95

ABSTRACT: For hydrotechnical reinforced-concrete structures, it was assumed that the formation of cracks up to 0.05 mm is permissible. It is indicated that experiments are confirming a stable connection between the bond resistance of the concrete with its reinforcement Ro and the tensile strength R of the concrete; Ro/R is assumed = 1.5. Effects of axial tension and bending are examined, and calculation formulas are set up under the assumption that the bending stress diagram in a compressed zone is triangular, whereas in the tension zone it has the shape of a second-order parabola; the average distance between the cracks is equal to kd/p, where d is the diameter of the reinforcement bar, p is the reinforcement ratio in percent, k = 35 in tension, k = 10 in bending. Examples of calculations are given.

N. P. Kashparova

Card 1/1

TSISKRELI, G. D.

30281.

Voprosy proyektirovaiiya lyegkogo byetona. Trudy IV Vsyesoyuz. konf - 7511 Po byetonu. Zhyelyezobyeton. Konstruktsiyam; Ch. 3 M. - L., 1949, S. 83-90

SO: LETOPIS' No. 34

TSISKRELI, G. D.

USSR/Engineering - Hydraulics, Materials Jul 51

"Certain Problems of the Theory of Reinforced Concrete for Hydraulic Structures," G. D. Tsiskreli, Cand Tech Sci

"Gidrotekh Stroi" No 7, pp 18-23

Describes briefly results of several yrs' investigation of the tensile strength of concrete. Discusses factors detg tensile strength, homogeneity coeff of concretes, deformations under tension and effect of reinforcing on tensile strength and crack formation.

199T60

TSISKRELI, G. D.

March 1

J. Am. Ce. Soc.
1 Feb. 1954
Cements, Linear
Plastics

Resistance of concrete to rupture. G. D. Tsiskreli. *Gidrotekh. Stroitel.*, 22 [3] 16–19 (1953).—Rupture tests were made after prolonged water storage and also after water saturation. Water storage caused a continuous increase in strength; water saturation caused loss in compressive strength and rise in tensile strength. Alternate freezing and thawing caused a greater drop in tensile strength than in compressive strength. The editors do not agree with the interpretation of the results. B.Z.K.

10-12-54
ONL

AID P - 3202

Subject : USSR/Hydraulic Engineering

Card 1/1 Pub. 35 - 6/19

Authors : Tsiskreli, G. D., Dr. Tech. Sci., Prof. and Leshchinskiy, M. Yu., Eng.

Title : On determining the bending strength of concrete

Periodical : Gidr. stroi., 5, 16-19, 1955

Abstract : The problem of determining the tensile strength of bent concrete is discussed, and tests with various makes of cements are described. Tables with data on beams are presented. Two Russian references, 1951-1953.

Institution : None

Submitted : No date

TSISKRELI, G.D., doktor tekhn. nauk, prof.

Tensility of reinforced concrete. Bet. i zhel.-bet. 9 no.3: 124-127 Mr '63. (MIRA 16:4)

(Reinforced concrete--Testing)

TSISKRELI, G.D., doktor tekhn.nauk, prof.

Revision of the Construction Specifications and Regulations in the part concerning the design of hydraulic structures of hydroelectric power stations. Gidr. stroi. 33 no.5:20-23 My '63. (MIRA 16:5)

(Hydraulic structures—Design and construction)

TSISKRELI, G.D., doktor tekhn.nauk, prof.

Choosing concrete grades and safety factors for large dams.
Gidr. stroi. 32 no.2:27-30 F '62. (MIRA 15:7)
(Dams) (Concrete--Testing)

TSISKRELI, G.D., doktor tekhn.nauk, prof.

Calculation of the strength of a cross section of mesh-reinforced concrete elements. Bet. i zhel.-bet. 8 no.5:207-209 My '62. (MIRA 15:6)

(Precast concrete)

TSISKRELI, G.D., prof., doktor tekhn.nauk; OYZERMAN, V.I., inzh.; LESHCHINSKIY, M.Yu., inzh.

Uniformity coefficient for cement concrete. Avt.dor. 22 no.2:14 F '59. (MIRA 12:2)

(Concrete construction)

TSISKRELI, G.O.

27710. Voprosy rascheta zhelezobetonnykh konstruktsiy na treshchinoobrazvaniye.

SO: Knizhnaya Letopis, Vol. 1, 1955

TSISKY, Yu.S.; CHEKALYUK, E.B.

Experimental check of change in the gas factor after well shutdown. Nauch.-tekh. sbor. po dob. nefti no.22:26-33 '64. (MIRA 17:9)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut.

TSIBLYAK, Valentina Mikhaylovna; MASALKINA, Anna Ivanovna; SEMENOV, S.M., red.

[Work of the factory, plant and local committees among women] Rabota FZMK sredi zhenshchin. Moskva, Profizdat, 1964. 78 p. (Bibliotechka profsoiuznogo aktivista, no.10(82)) (MIRA 17:7)

TSISTAN, O.V.

Cholesteatoma of the ethmoidal labyrinth. Zhur. ush., nos. i gorl. bol. 21 no.5:82 S-O '61. (MIRA 15:1)

1. Iz otorinolarinologicheskogo otdeleniya Voyennogo gospitalya g. Murmanska.

(NOSE, ACCESSORY SINUSES OF—TUMORS)

TSISTORAZUM, A. A. and MIKHAILOV, I. G.

"Velocity of Ultrasonic Waves in Certain Binary Mixtures of Organic Liquids", Dokl. Akad, Nauk, 81, p 779, 1951.

TSISKARISHVILI, N.I.

Evaluating methods of investigating rock pressure in mining bedded deposits [in Georgian with summary in Russian]. Trudy Inst. met. i gor. dela AN Gruz. SSR 2:129-146 '49. (MIRA 11:1)
(Mining engineering) (Earth pressure)

SOV/120-58-4-8/30

AUTHORS: Medvedev, M. N., Sokolova, Ye. S., Filippov, P. I. and Tsislyak, O. N.

TITLE: Time Characteristics of Photo-Multipliers (Vremennyye kharakteristiki fotoumnozhiteley)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 4, pp 37-39 (USSR)

ABSTRACT: An investigation was made of the rise times of the leading edges of pulses from the following photomultipliers developed by N. S. Khlebnikov: FEU-1V, FEU-2V, FEU-1B2V. Photomultipliers FEU-1V and FEU-2V have semitransparent photocathodes 40 mm in diameter, and differ from each other only in the number of dynodes. The photocathode is made of SbCs and its maximum spectral sensitivity is at 4000 Å. The amplification coefficient for the FEU-1V is about 5×10^5 and for the FEU-2V about $2-3 \times 10^6$. The FEU-1B2V has a larger cathode, namely, 80 mm diameter and an amplification coefficient of about 10^6. The photomultipliers are so constructed that the electron collection from the photocathode is 100%. Experiments have shown that the rise time (0.1-0.9)

Card 1/2

Time Characteristics of Photomultipliers

of the leading edges of pulses from the 3 photomultipliers are 3.5×10^{-9} for the first two and 4.5×10^{-9} for the third one. The photomultipliers may be used in scintillation counters and Cerenkov counters in fast coincidence circuits. It is necessary to screen the counters from external electromagnetic fields by means of appropriate electromagnetic screens. N. S. Khlebnikov, A. Ye. Melamid and A. M. Potapov are thanked for supplying the photomultipliers and taking part in discussions. There are 4 figures, 4 tables and no references.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (United Institute for Nuclear Studies)

SUBMITTED: October 30, 1957.

Card 2/2

TSISYK, Yu.S.

Experience in using the universal method of determining the physical parameters of a layer. Trudy UkrNIGRI no.7:199-212 '63.

(MIRA 19:1)

TSISYK, Yu.S.; FILYAS, Yu.I.

Determining the physical parameters of reservoir waters.
Neft. i gaz. prom. no.2:45-46 Ap-Je '63.

(MIRA 17:11)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut.

TSITAISHVILI, R.V.

Def. at
Tbilisi State U.

тепла бария и термодинамическая теория сегнето-электрических явлений. 1950. 96 с.
Защ. 1951, 30.6.

756. Кечлаадзе Давид Васильевич. Связь между нормальной вторичной электронной эмиссией и вынужденной эмиссией. 1944, 64 с.
Защ. 1945, 6.5.

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Защ. 1957, 14.9.

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Защ. 1940, 23.6.

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Защ. 1954, 23.11.

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Защ. 1958, 24.5.

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Защ. 1957, 22.6.

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Защ. 1944, 23.10.

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Защ. 1956, 29. 12.

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Dissertation for degree of
Candidate Physico-Mathematical Sciences

KOVAL'CHUK, N.R.; MEL'NICHUK, Ya.G.; [illegible], Yu.I.; [illegible], Yu.P.

Experimental hydrogen gas injection into zeolite sediments of the Mirkov field. Trudy UkrNIGRI no.[illegible] '63.
(MIRA [illegible])

TSITAYSHVILI, R.V.

TSITAYSHVILI, R. V.: "Some photoelectric properties of natural monocrystals of sulfur." Tbilisi State U imeni I. V. Stalin. Tbilisi, 1956.
(Dissertation for the Degree of Candidate in Physicomathematical Sciences.)

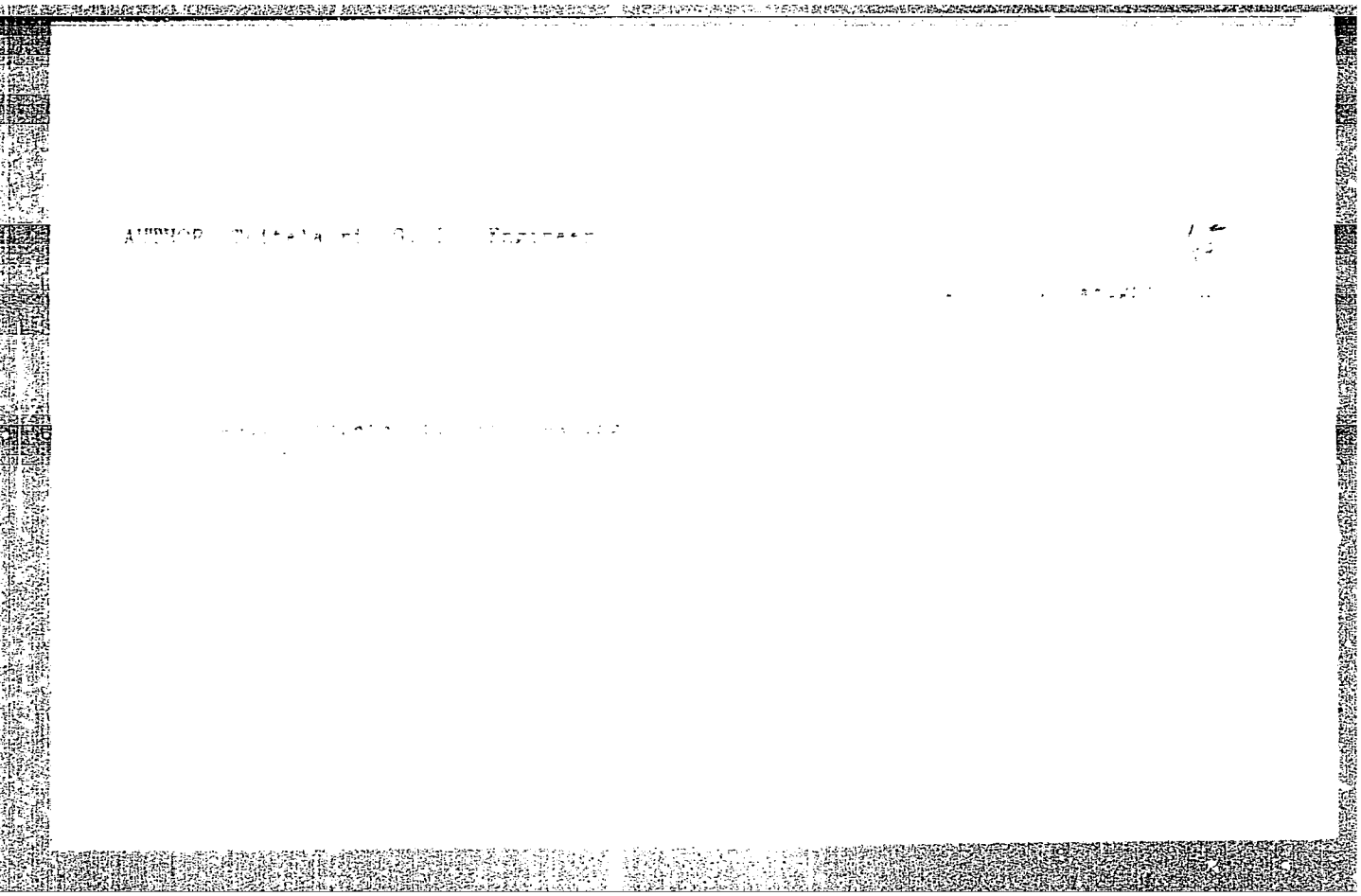
SO: Knizhnaya Letopis', No. 26, 1956

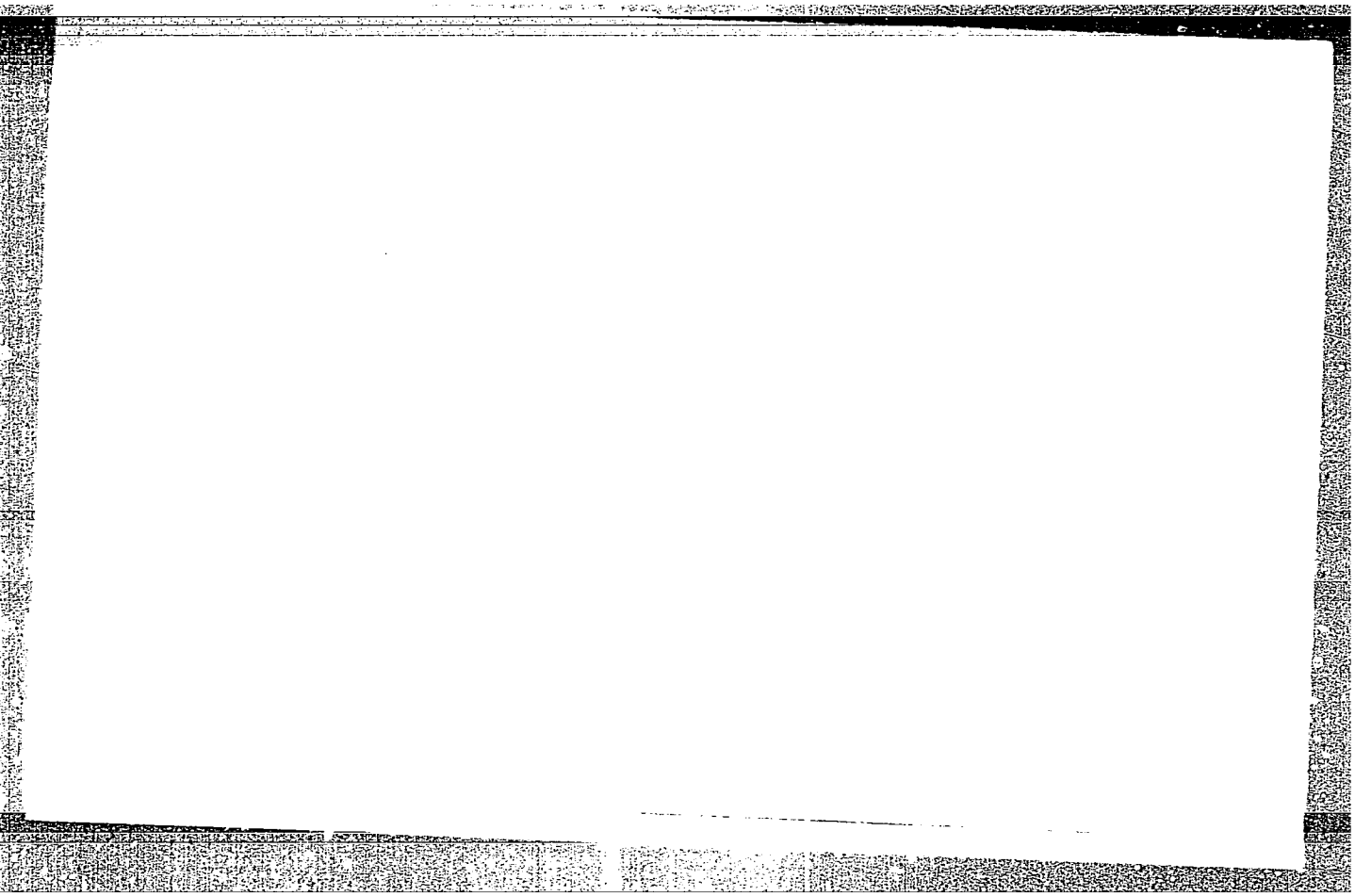
MIRONOV, A., doktor tekhn. nauk, prof.; LARIONOVA, Z.M., kand. tekhn. nauk; TSITELAURI, G.I., inzh.; KOKETKINA, A.I., inzh.

Electric curing of light concrete with a slag binding material. Stroi. mat. 10 no.1:31-33 Ja'64. (MIRA 17:5)

TSITSLAURI, G.I., kand.

Optimal processes of electric curing of lightweight concrete with artificial porous fillers. Stroi. mat. 10 no.7:3-4 Jl '64. (MIRA 18:1)





APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120003-5"

TSITELAURI, G.I., nauchnyy sotrudnik

Electric curing of large blocks of lightweight concrete. Stroi.mat. 10 no.12:35-36 D '64. (MIRA 18:1)

1. Nauchno-issledovatel'skiy institut betona i zhelezobetona Gosstroya SSSR.

MIRONOV, S.A.; TSITELAURI, G.I., inzh.

Effectiveness of various methods of thermal hardening for lightweight concretes made with artificial porous aggregates. Stroi. mat. 9 no.5:10-13 My '63. (MIRA 16:7)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Mironov).
(Lightweight concrete)

ACCESSION NR: AP4044524 S/0294/64/002/004/0565/0572

AUTHORS: Samuylov, Ye. V.; Tsitelauri, N. N.

TITLE: Collision integral for Morse potential

SOURCE: Teplofizika vy*sokikh temperatur, v. 2, no. 4, 1964, 565-572

TOPIC TAGS: rarefied gas, collision integral, gas kinetics, numerical method, dissociation energy, diatomic molecule

ABSTRACT: A method for calculating the collision integral $\Omega^{(1,s)}$, used in rarefied gas kinetics, was considered with the Morse potential $U(r) = D_e\{e^{-2\beta\xi} - 2e^{-\beta\xi}\}$, where D_e - dissociation energy of diatomic molecule, β - nondimensional constant = $\omega_e/2(B_eD_e)^{\frac{1}{2}}$, ω_e, B_e - vibrational and rotational constants, $\xi = (r-r_e)/r_e$ where r - interatomic distance. The collision integral is given in a nondimensional form, thus

$$\Omega^{(l,s)*} = \frac{\Omega^{(l,s)}\sqrt{2\pi\mu/kT}}{\frac{1}{2}(s+1)!\left[1-\frac{1}{2}\frac{1+(-1)^l}{1+l}\right]\pi r_e^2}$$

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ACCESSION NR: AP4044524

where $\Omega^{(l,s)*}(T^*, \beta) = 2\,[(s+1)!]^{-1} \int_0^\infty e^{-\gamma^2} \gamma^{2s+3}\, Q^{(l)*}\, d\gamma;$

$Q^{(l)*}(K, \beta) = 2\left[1 - \frac{1}{2}\,\frac{1+(-1)^l}{1+l}\right] \int_0^\infty (1 - \cos^l \chi)\, b^* db^*;$

$\chi(K, b^*, \beta) = \pi - 2b^* \int_{r_0^*}^\infty \frac{dr^*}{r^2} \left\{1 - \left(\frac{b^*}{r^*}\right)^2 - \frac{\Phi}{K}\right\}^{-\frac{1}{2}}.$

The numerical calculation of the above equation was divided into seven domains in K and b*

1) $0 \leqslant K \leqslant K_{кр},\ 0 \leqslant b^* \leqslant b_2^*;$
2) $0 \leqslant K \leqslant K_{кр},\ b_2^* \leqslant b^* \leqslant b_m^*;$
3) $0 \leqslant K \leqslant K_{кр},\ b_m^* \leqslant b^* \leqslant b_1^*;$
4) $0 \leqslant K \leqslant K_{кр},\ b_1 \leqslant b^* \leqslant \infty;$
5) $K_{кр} \leqslant K \leqslant K_\sigma,\ 0 \leqslant b^* \leqslant \infty;$
6) $K_\sigma \leqslant K \leqslant \infty,\ 0 \leqslant b^* \leqslant b_\sigma^*;$
7) $K_\sigma \leqslant K \leqslant \infty,\ b_\sigma^* \leqslant b^* \leqslant \infty;$

and carried out using Gauss's method.

The following temperature scales were used:

$0{,}1 \cdot 10^m \leqslant T^* \leqslant 0{,}2 \cdot 10^m \quad \Delta T^* = 0{,}1 \cdot 10^{m-1}$
$0{,}2 \cdot 10^m \leqslant T^* \leqslant 0{,}5 \cdot 10^m \quad \Delta T^* = 0{,}2 \cdot 10^{m-1}$
$0{,}5 \cdot 10^m \leqslant T^* \leqslant 0{,}1 \cdot 10^{m+1} \quad \Delta T^* = 0{,}5 \cdot 10^m$
$1 \leqslant T^* \leqslant 20 \quad \Delta T^* = 0{,}1.$

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ACCESSION NR: AP4044524

where m = -1; 0. The results for $\Omega^{(1,s)}$, $l = 1,2,3$; $s = 1,2,3$ were tabulated. Orig. art. has: 12 formulas and 1 table.

ASSOCIATION: Moskovskiy energeticheskiy institut im. G. M. Krzhizhanovskogo (Moscow Institute of Power Engineering)

SUBMITTED: 06Dec63 ENCL: 00

SUB CODE: ME, MA NO REF SOV: 002 OTHER: 003

Card 3/3

L 45434-66 EWT(1)/EWT(m)/EWP(j)/T DS/WW/JW/GD/RM

ACC NR: AT6022640 SOURCE CODE: UR/0000/66/000/000/0003/0013

AUTHOR: Rozhdestvenskiy, I. B.; Tsitelauri, N. N.; Voskresenskaya, N. V.; Samuylov, Ye. V.

80
ETI

ORG: none

TITLE: Morse potential parameters for C-C, C-O, C-N interactions

SOURCE: AN SSSR. Energeticheskiy institut. Issledovaniya po fizicheskoy gazodinamike (Studies of physical gas dynamics). Moscow, Izd-vo Nauka, 1966, 3-13

TOPIC TAGS: atomic structure, molecular theory, molecular interaction, potential energy, high temperature research

ABSTRACT: The interactions of atoms with an unsaturated electron shell at high temperatures are well described with the aid of the Morse potential function. Previous works (1961-1962) calculated the second virial coefficient, the collision integrals, effective sections, and collision angles for this potential. In 1961 Morse potential parameters were determined for certain non-polar molecules, as well as for N-N, O-O, and N-O interactions by means of potential curves with a minimum. The present work estimates the values for the Morse potential parameters for the interactions of atoms in biatomic molecules, such as C_2, CO, CN. Low electron state potential energy curves previously found for C_2 (in 1962) and CO (in 1960) were used to determine the parameters in the cases of C_2 and CO. Here the potential curves for certain of the inter-

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L 45434-66

ACC NR: AT6022640

actions of C and N atoms of the CN molecule are determined. The parameters of the Morse potential are (1) energy of disassociation, calculated from the minimum on the potential curve, (2) the balance distance between atoms, and (3) Beta, which is the ratio of the oscillation and rotation constants for the beatomic molecule. Org. art. has: 8 formulas, 9 tables, and 1 figure.

SUB CODE: 20/ SUBM DATE: 31 feb 66 / ORIG REF: 004 / OTH REF: 009

KS
Card 2/2

L 45438-66 EWT(1) GD

ACC NR: AT6022641 SOURCE CODE: UR/0000/66/000/000/0014/0024

AUTHOR: Samuylov, Ye. V.; Tsitelauri, N. N. 88 B+1

ORG: none

TITLE: Collision integrals, effective sections, and angular deviations for the Morse potential

SOURCE: AN SSSR. Energeticheskiy institut. Issledovaniya po fizicheskoy gasodinamike (Studies of physical gas dynamics). Moscow, Izd-vo Nauka, 1966, 14-24

TOPIC TAGS: atomic structure, molecular theory, gas analysis, high temperature research, transport theory, molecular interaction

ABSTRACT: Transport coefficients of gases require information on effective sections for different interactions between molecules, atoms, and gas ions. These sections are found experimentally for some gases at 1000° to 1500°K. The same condition, but at still higher temperatures, was not examined. Sections of atomic interactions are of interest because molecules disassociate into atoms. Atoms with an unsaturated electron shell can interact in accordance with different types of potential curves, depending on the mutual orientation of the orbital and spinning moments of the outside shell electrons. Average effective sections can be calculated for each intersecting curve. Potential curves of the repulsive type are often well described by a simple exponential function. Potential curves of the attractive type are well described by the Morse potential. The calculations for the average effective sections for this

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L 45430-66

ACC NR: AT6022641

potential are of interest. The average effective sections which enter into the expressions for viscosity coefficient, thermal conductivity, and diffusion of disassociating gases are expressed by collision integrals. The article demonstrates how to calculate collision integrals for the Morse potential for Beta = 1.5, and includes the results of calculations for angular deviations and effective sections. Basic information on the Morse potential is included and magnitudes are tabulated. Since this function cannot be described by the interaction of atoms in the dimensionless state, the article includes dimensionless values for collision integrals, effective sections, and angular deviations in radians, with tabulations for the corrected Morse potential. Orig. art. has: 20 formulas, 14 figures and 1 table.

SUB CODE: 20, 12 / SUBM DATE: 31 Feb 66 / ORIG REF: 002 / OTH REF: 003

Card 2/2

BARANTSEV, R.G. (Leningrad); MIKHAYLOVA, I.A. (Leningrad); TSITELOV, I.M. (Leningrad)

Determining the order of perturbation functions in the method of minor perturbations. Inzh.zhur. 1 no.2:69-81 '61. (MIRA 14:12)
(Perturbation)

TSITELOVA, Z.K.

21002 Bugianishuili, Sh.M. i Tsitelova, Z.K. Rol' zeleni i oboshchey v R sprostranenii gel' mintov-V. ogl l-y auti Bugianashili Sh.M. Byulleten' (Nauch-issled in-t malyarii i med parazitologii im Virsaladze) No.1,1948, s. 56-65-Na gruz yaz-Rezyume Na. Rus Yaz--Bibliogr 9 Nazv.

SO: LETOPIS ZHURNAL STATEY-Vol. 28, Moskva, 1949

TSITENKO, N.D.

Mud volcanoes in the Dagi region of Sakhalin. Trudy VNIGRI no.181: 171-175 '61. (MIRA 15:2)

(Dagi Bay--Mud volcanoes)

TSITENKO, N.D.

Waters of the Dagi geysers on Sakhalin; formation of the chemical composition of calcium chloride waters. Trudy VNIGRI no.181:203-212 '61. (MIRA 15:2)

(Dagi Bay--Geysers)(Water--Composition)

TSITENKO, N.D.; SOLDATOVA, K.S.

Natural gases of Sakhalin. Trudy VNIGRI no.224:59-66 '63.
(MIRA 17:2)

ALEKSEYCHIK, Stepan Nikolayevich;pri uchastii sleduyushchikh: GAL'TSEV-REZYUK, S.D.; GNEDIN, K.I.: ZAYTSEV, S.M.; KIRICHEK, M.A.; KOZLOV, A.L.; PURKIN, L.B.; RATNER, V.Ya.; RATNOVSKIY, I.I.; RAKHMANOV, K.F.; TABOYAKOV, A.Ya.; TSITENKO, N.D.; GOLUBKOV, I.A., nauchnyy red.; KELAREV, L.A., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Geology and gas and oil potentials of northern Sakhalin] Geologicheskoe stroenie i gazoneftenosnost' severnoi chasti Sakhalina. Leningrad, Gos. nauchn. -tekh.izd.-vo neft. i gorno-toplivnoi lit-ry Leningr. otd-nie, 1959. 226 p. (Leningrad.Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.135).

(Sakhalin--Petroleum geology)
(Sakhalin--Gas, Natural--Geology)

MIRONOV, S.A., prof., doktor tekhn. nauk; TSITERLAURI, G.I., inzh.

Deformations in lightweight concrete during the process of heating and thermos curing with preliminary heating of the mixture. Stroi. mat. 11 no.7:21-23 Jl '65. (MIRA 18:8)

TSITSISHVILI, G.V., akademik; ANDRONIKASHVILI, T.G.; CHUMBURIDZE, T.A.

Gas chromatographic properties of barium-containing type-X zeolites. Soob. AN Gruz. SSR 38 no.1:63-68 Ap '65.
(MIRA 18:12)

1. Institut fizicheskoy i organicheskoy khimii imeni Melikishvili, AN GruzSSR. 2. Akademiya nauk Gruzinskoy SSR (for TSitsishvili). Submitted Dec. 11, 1964.

SIDAMONIDZE, Sh.I.; TSitsishvili, G.V., akademik

Effect of the porosity of aluminum γ-oxide on its catalytic properties. Soob. AN Gruz. SSR 38 no. 3:553-558 Je '65.
(MIRA 18:12)

1. Tbilisskiy gosudarstvennyy universitet. 2. Akademiya nauk Gruzinskoy SSR (for TSitsishvili). Submitted Febr. 24,1965.

TSITKIN, I.S.

Breaking of the nail during the treatment of diaphyseal fracture of the femur by imtramedullary nailing. Khirurgiia no.4:83 Ap '54. (MLRA 7:6)

1. Iz kafedry gospital'noy khirurgii Uzhgorodskogo gosudarstvennogo universiteta.

(HIP, fractures,
*surg., intramedullary nailing, compl., breaking of nail)
(FRACTURES,
*hip., intramedullary nailing, compl., breaking of nail)

TSITKIN, I.S.

Reimplantation of a lower extremity on a vascular-neural pedicle using Klimov's T-shaped nail. Ortop., travm. i protez. no.6:64-65 N-D '55. (MLRA 9:12)

1. Iz kafedry gospital'noy khirurgii (zav. - prof. V.L.Khenkin) Meditsinskogo fakul'teta Uzhgorodskogo gosuniversiteta na baze Oblastnoy klinicheskoy bol'nitsy (glavnyy vrach - G.S.Lutsenko)
(EXTREMITIES, LOWER--SURGERY)

TSITKIN, I.S. (Uzhgorod)

Early detection and treatment of congenital deformities in children. Fel'd. i akush. 21 no.7:34-38 Jl '56. (MLRA 9:10)
(DEFORMITIES)

TSITKIN, I.S., oblastnoy ortoped-travmatolog; SIL'BERSHTEYN, D.Z.

Experience in the prevention of accidents and the organization of traumatologic first aid in the lumber industry of Svalyava. Ortop., travm. i protez. 18 no.1:50-52 Ja-F '57. (MIRA 10:6)

1. Zav. khirurgicheskim otdeleniyem Svalyavskoy raybol'nitsy (Zakarpatskaya obl.) (for Sil'bershteyn)
(WOUNDS AND INJURIES, prev. and control in lumber indust.)
(INDUSTRIAL HYGIENE prev. & control of inj. in lumber indust.)

CHUVATOV, V.V.; BEREZIN, N.N.; METSGER, E.Kh.; NAGIN, V.A.; KARTASHOV, N.A., kand. tekhn. nauk, dots.; MIL'KOV, N.V., kand. tekhn. nauk; BYCHKOV, M.I., kand. tekhn.nauk, dots.; SUKHANOV, V.P., SHLYAPIN, V.A.; KORZHENKO, L.I.; ABRAMYCHEV, Ye.P.; KAZANTSEV, I.I.; YARES'KO, V.F.; LUKOYANOV, Yu.N.; DUDAROV, V.K.; BALINSKIY, R.P.; KOROTKOVSKIY, A.E.; PONOMAREV, I.I.; NOVOSEL'SKIY, S.A., kand. tekhn.nauk, dots.; IL'INYKH, N.Z.; TSITKIN, N.A.; ROGOZHIN, G.I.; PRAVOTOROV, B.A.; ORLOV, V.D.; RACHINSKIY, M.N.; KULTYSHEV, V.N.; SMAGIN, G.N.; KUZNETSOV, V.D.; MACHERET, I.G.; SHEGAL, A.V.; GALASHOV, F.K.; ANTIPIN, A.A.; SHALAKHIN, K.S.; RASCHEKTAYEV, I.M.; TISHCHENKO, Ye.I.; FOTIYEV, A.F.; IPPOLITOV, M.F.; DOROSINSKIY, G.P.; ROZHKOV, Ye.P.; RYUMIN, N.T.; AYZENBERG, S.L.; GOLUBTSOV, N.I.; VUS-VONSOVICH, I.K., inzh., retsenzent; GOLOVKIN, A.M., inzh., retsenzent; GUSELETOV, A.I., inzh., retsenzent; KALUGIN, N.I., inzh., retsenzent; KRAMINSKIY, I.S., inzh., retsenzent; MAYLE, O.Ya., inzh., retsenzent; OZERSKIY, S.M., inzh., retsenzent; SKOBLO, Ya.A., dots., retsenzent; SPERANSKIY, B.A., kand. tekhn. nauk, retsenzent; SHALAMOV, K.Ye., inzh., retsenzent; VOYNICH, N.F., inzh., red.; GETLING, Yu., red.; CHERNIKHOV, Ya., tekhn. red.

[Construction handbook] Spravochnik stroitelia. Red.kollegiia: M.I. Bychkov i dr. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo. Vol.1. 1962. 532 p. Vol.2. 1963. 462 p. (MIRA 16:5)
(Construction industry)

TSITKIN, S.

Tsentrobezhnye Kompressory Gazoduvki i Ventiliatory (Centrifugal Compressors, Gas Blowers and Fans)

270 p. 1.50

SO: Four Continent Book List, April 1954

15(10)(4) Sov/

KULIKOVSKIY, Pavel Pavlovich, kand.tekhn.nauk; SHVETSOV, Petr Dmitriyevich, prof.; SEMENOV, Aleksandr Sergeyevich, dots.; MOZER, V.F., prof., retsenzent; SAYKOVSKIY, M.I., kand.tekhn.nauk, retsenzent; KIRAKOVSKIY, N.F., dots., red.; TSITKIN, S.I., kand.tekhn.nauk, red.; ROMANOVSKIY, I.A., inzh., red.; SERDYUK, V.K., inzh., red. izd-va; RUDENSKIY, Ya.V., tekhn.red.

[Steam engines; control, adjustment, and testing; a manual] Parovye dvigateli; kontrol', naladka, isputanie. Spravochnoe rukovodstvo. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1955. 377 p. (MIRA 11:6)

(Steam engines--Handbooks, manuals, etc)

TSITKIN, S. I.

35321. K Teorii Tsentrobezhnoy Mashiny. V SB:50 Let Kievsk. Politekhn. In-Ta. Kiev, 1948, S. 419-27

SO: Letopis 'Zhurnal 'nykh Statey, Vol. 34, Maskva, 1949

PROSKURA, G.F.; TSITKIN, S.I., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; SOROKA, M.S., vedushchiy redaktor; RUDENSKIY, Ya.B., tekhnicheskiy redaktor

[Hydrodynamics of turbomachines] Gidrodinamika turbomashin. 2-e, perer. izd. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, Ukrainskoe ot-nie, 1954. 417 p. (MLRA 7:9)
(Hydrodynamics) (Turbomachines)

TSITKIN, S. I.

Tsentrobezhnye kompressory, gazoduvki i ventiliatory. Kiev, Mashgiz, 1950. 271 p. illus.

Bibliography: p. 268-69.

(Centrifugal compressors, gas blowing engines and ventilators.)

DLC: TJ990.T7

SO: Manufacturing and Mechanical Engineering in the Soviet Union. Library of Congress, 1953.

Ishlinskiy, A. Yu.

Centrifugal compressors, gas-driven blowers, and ventilators.

Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry

1950.

271 p.

TSilkin, S. I.

TSentrobezhnye kompressory, gazoduvki i ventiliatory. Centrifugal compressors, gas-blowers, industrial fans. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1950. 271 p. (52-15977)

TJ990.T7

1. Air-Compressors. 2. Fans, Mechanical.

70855

26.2000

S/124/62/000/003/018/052
D237/D301

AUTHOR: Tsitkin, S.I.

TITLE: Surge in single stage blade compressors

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 3, 1962, 47 - 48, abstract 3B276 (Izv. Kiyevsk. politekhn. in-ta, 1960, 30, 167 - 178)

TEXT: The reasons for the appearance of surge in rotary and axial compressors and the conditions of the performance of the compressor under various pressure characteristics, are discussed in general terms. The phenomena are listed, observed by various authors during the experimental investigation of the surge. An analysis is made of the qualitative aspect of the appearance of the surge when the demand for the gas from the system under the action of a compressor falls, and in turning on and off the faucet on the pressure pipe from the compressor. [Abstractor's note: Complete translation].

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Card 1/1

TSilkin, S. I.

TSentrobezhnye kompressory, gnzouuvki i ventiliatory. Centrifugal compressors, fans and ventilators. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1950. 271 p. (52-15977)

TJ990.T7

1. Air-compressors. 2. Fans, Mechanical.

70385

TSITKIN, S. I.

Centrifugal ventilators and exhaust fans. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry Ukr. otd-nie 1953. 310 p. (54-27914)

TJ969.T6

TSITKIN, S.I., kandidat tekhnicheskikh nauk; NEDUZHIY, I.A., kandidat tekhnicheskikh nauk, redaktor.

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Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 3, p. 205 (USSR)

AUTHOR: Tsitkin, Yu. S.

TITLE: Problems in the Telemechanization of Dispatcher Control of Gas Mains (Zadachi telemekhanizatsii dispetcherskogo upravleniya magistral'nym gazoprovodom)

PERIODICAL: In Sbornik: Telemekhaniz. v nar. kh-ve, Moscow, AN SSSR, 1956, pp. 433-437

ABSTRACT: The telemechanization of dispatcher control of gas mains should insure uninterrupted service, establish optimum operating conditions, and provide automatic control of compressors. It is advantageous to organize dispatcher stations at the main gas dispatcher and in the districts being supplied. The main dispatcher station is equipped with telephone communication, instruments for recording

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Problems in the Telemechanization of Dispatcher Control of Gas Mains (Cont.)

gas pressure and consumption at the most significant points, and a nonautomatic mimic bus for the entire gas main. The district dispatcher station is provided with: telephone communication; instruments which indicate and record gas pressure every 15 to 20 km; instruments describing the operation of the compressor station, and equipment controlling automatic cut-off and regulating valves. There is a need for the development and manufacture of remote control equipment which fulfills the requirements of gas mains. N.M.F.

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